Refine Search

Search Results -

Terms	Documents
L5 and (angl\$ with turn\$ with ratio)	9

US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index

Derwent World Patents Index IBM Technical Disclosure Bulletins

US Pre-Grant Publication Full-Text Database

Search:

6	
	₩

Refine Search

Recall Text 👄 Clear

Interrupt

Search History

DATE: Tuesday, June 21, 2005 Printable Copy Create Case

Set Name side by side	<u>e</u> Query	Hit , Count	Set Name result set
DB = U	SPT; THES=ASSIGNEE; PLUR=YES; OP=OR		
<u>L6</u>	L5 and (angl\$ with turn\$ with ratio)	9	<u>L6</u>
<u>L5</u>	L4 and @ad<=20021029	189	<u>L5</u>
<u>L4</u> ·	L3 and accelerat\$ and (yaw near2 rate)	203	<u>L4</u>
<u>L3</u>	L2 and accelerat\$ and (left\$ near2 wheel) and (right near2 wheel)	368	<u>L3</u>
<u>L2</u>	((steer\$ near2 angle) with sens\$) and (rotat\$	1656	<u>L2</u>

with angle)

DB=PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR

<u>L1</u> steer\$ near2 angle

28190 <u>L1</u>

END OF SEARCH HISTORY

Hit List

Clear Generate Collection Print Fwd Refs Bkwd Refs
Generate OACS

Search Results - Record(s) 1 through 9 of 9 returned.

1. Document ID: US 6659570 B2

L6: Entry 1 of 9

File: USPT

Dec 9, 2003

US-PAT-NO: 6659570

DOCUMENT-IDENTIFIER: US 6659570 B2

TITLE: Vehicle motion control device and method

L6: Entry 2 of 9

File: USPT

Aug 21, 2001

US-PAT-NO: 6276766

DOCUMENT-IDENTIFIER: US 6276766 B1

TITLE: Brake system for behavior control of vehicle having pump to start on

forecast of execution of control by a plurality of parameters

Full Title Citation Front Review Classification Date Reference Claims KMC Draw, D

3. Document ID: US 6053583 A

L6: Entry 3 of 9

File: USPT

Apr 25, 2000

US-PAT-NO: 6053583

DOCUMENT-IDENTIFIER: US 6053583 A

TITLE: Stability control system for vehicle

Full Title Citation Front Review Classification Date Reference Citation Claims KMC Draw. D

4. Document ID: US 5973463 A

L6: Entry 4 of 9

File: USPT

Oct 26, 1999

Record List Display Page 2 of 3

US-PAT-NO: 5973463

DOCUMENT-IDENTIFIER: US 5973463 A

TITLE: Driving controller for electric vehicle

5. Document ID: US 5863105 A

L6: Entry 5 of 9

File: USPT

Jan 26, 1999

US-PAT-NO: 5863105

DOCUMENT-IDENTIFIER: US 5863105 A

TITLE: Turn control apparatus for a motor vehicle equipped with antiskid braking

system

6. Document ID: US 5276624 A

L6: Entry 6 of 9

File: USPT

Jan 4, 1994

US-PAT-NO: 5276624

DOCUMENT-IDENTIFIER: US 5276624 A

TITLE: Turning control apparatus for vehicle

Full Title Citation Front Review Classification Date Reference Citation Claims KMC Draw, D

7. Document ID: US 4951207 A

L6: Entry 7 of 9

File: USPT

Aug 21, 1990

US-PAT-NO: 4951207

DOCUMENT-IDENTIFIER: US 4951207 A

TITLE: Method for controlling the front wheel steer angle

Fuli Title Citation Front Review Classification Date Reference Claims KWC Draw D

8. Document ID: US 4926955 A

L6: Entry 8 of 9

File: USPT

May 22, 1990

US-PAT-NO: 4926955

DOCUMENT-IDENTIFIER: US 4926955 A

** See image for <u>Certificate of Correction</u> **

Record List Display Page 3 of 3

TITLE: Rear wheel steering apparatus for automobile

F	uli	Title	Citation	Front	Review	Classification	Date	Reference		Clain	ns	KWMC	Drawi D
	******			*********			•••••		 ***************************************	**************		**********	
}		9.	Docu	men	t ID:	US 4669	9745	5 A					
	L6:	Entr	y 9 of	9		Fi	lle:	USPT		Jun	2,	1987	7

US-PAT-NO: 4669745

DOCUMENT-IDENTIFIER: US 4669745 A

TITLE: Apparatus for controlling steering angle of rear wheels of a vehicle

Full 1	Fitle Citation	Front	Review Cl	assitication	Date Ref	erence			Claims	KANC	Draint D
Clear	Generat	e Colle	Ction	Print	Fwd I	Refs	Bkwc	Refs	Gene	rate O	ACS
	Terms							Docu	ments		
. [L5 and (angl\$ with turn\$ with ratio)							9			

Display Format:	-	Change Format

Previous Page Next Page Go to Doc#

Previous Doc

Next Doc

Go to Doc#

Generate Collection

Print

L6: Entry 1 of 9

File: USPT

Dec 9, 2003

US-PAT-NO: 6659570

DOCUMENT-IDENTIFIER: US 6659570 B2

TITLE: Vehicle motion control device and method

DATE-ISSUED: December 9, 2003

INVENTOR-INFORMATION:

NAME CITY

STATE ZIP CODE

COUNTRY

Nakamura; Akira

Tagata-gun

JΡ

US-CL-CURRENT: 303/146; 180/197, 303/112, 303/147, 701/74

ABSTRACT:

Vehicle motion control devices and methods systematically treat a conditions of each wheel to acquire and maintain the vehicle behavior stability together with anti wheel lock and wheel spin processing, braking forces distribution. Device for controlling a running behavior of a vehicle estimates a road reaction force on each wheel, calculates a yaw moment around a centroid of the vehicle body generated by the road reaction force on each wheel, and controls driving and braking forces on each wheel based upon the yaw moments so as to stabilize a running of the vehicle. Spin and Drift conditions are detected through presently generated yaw moments and critical yaw moments which can be generated by a road reaction force assumed to be maximized. Physical parameters of each wheels, required for detecting and controlling the behavior of the vehicle are estimated with a theoretical tire model.

82 Claims, 49 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 30

Previous Doc

Next Doc

Go to Doc#

Generate Collection

Print

L6: Entry 2 of 9

File: USPT

Aug 21, 2001

US-PAT-NO: 6276766

DOCUMENT-IDENTIFIER: US 6276766 B1

TITLE: Brake system for behavior control of vehicle having pump to start on

forecast of execution of control by a plurality of parameters

DATE-ISSUED: August 21, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Yamada; Yoshihisa

Shizuoka-ken

JP

US-CL-CURRENT: <u>303/154</u>; <u>303/113.2</u>, <u>303/146</u>

ABSTRACT:

A brake system of a vehicle for a vehicle behavior stabilizing control has a working fluid circuit including wheel cylinders, a pump to produce a raised pressure source of a working fluid without an accumulator, fluid flow control valves for selectively supplying the working fluid from the raised pressure source to each wheel cylinder for applying braking, and an automatic controller for controlling the pump and the fluid flow control valves, wherein the automatic controller starts to operate the pump when a first parameter suggestive of a first running condition of the vehicle increases across its threshold value and starts to operate the fluid flow control valves for the vehicle behavior stabilizing control when a second parameter suggestive of a second running condition of the vehicle increases across its threshold value.

8 Claims, 9 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 8

Previous Doc

Next Doc

Go to Doc#

Generate Collection

Print

L6: Entry 3 of 9

File: USPT

Apr 25, 2000

US-PAT-NO: 6053583

DOCUMENT-IDENTIFIER: US 6053583 A

TITLE: Stability control system for vehicle

DATE-ISSUED: April 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Izumi; Tomoji	Hatsukaichi			JP
Okazaki; Haruki	Hiroshima			JP
Tsuyama; Toshiaki	Higashihiroshima			JP
Tachihata; Tetsuya	Hiroshima			JP

US-CL-CURRENT: 303/150; 303/146, 701/91

ABSTRACT:

A system of driving stability control, which is adapted to control valves for opening and closing hydraulic pressure passages between a master cylinder and brake units of wheels and simultaneously controls pressurizing valves and a pressure relief valves so as to supply braking force selectively and independently to the brake units when a specified driving condition is detected, performs the coordinated braking control that, when a specified step-on pressure is detected during execution of the driving stability control, delivers the braking pressure to the brake units according to brake pedal travels as the driving intends simultaneously with reducing the participative degree of the driving stability control so as to ensure gripping force of wheels that brake the vehicle and reduces reduce the participative degree of the driving stability control with an intention of regarding driving stability of the vehicle as important when the vehicle is going to cause a spin.

12 Claims, 7 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 7

Previous Doc

Next Doc

Print

Go to Doc#

r Gen

Generate Collection

L6: Entry 4 of 9

File: USPT

Oct 26, 1999

US-PAT-NO: 5973463

DOCUMENT-IDENTIFIER: US 5973463 A

TITLE: Driving controller for electric vehicle

DATE-ISSUED: October 26, 1999

INVENTOR-INFORMATION:

NAME CITY

TY STATE ZIP CODE

COUNTRY

Okuda; Kenzo

Toyota

JP JP

Mizutani; Ryoji

Aichi-ken

US-CL-CURRENT: 318/430; 180/282, 318/432, 318/67, 701/4

ABSTRACT:

A driving controller of electric vehicles. An angular <u>accelerative</u> dimension error calculator calculates error information having a dimension of angular <u>acceleration</u> of a car body. A feedback torque calculator calculates the feedback torque on the basis of the error information according to the sign of a steering angle and the error information, and ON/OFF of an <u>accelerator</u>. A vehicle controller corrects the reference torque, determined according to an <u>accelerator</u> angle and braking force, by the feedback torque, and outputs the corrected reference torque toward motor controllers, thereby improving vehicle running safety.

4 Claims, 16 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 12

Previous Doc

Next Doc

Go to Doc#

Generate Collection

Print

L6: Entry 5 of 9

File: USPT

Jan 26, 1999

US-PAT-NO: 5863105

DOCUMENT-IDENTIFIER: US 5863105 A

TITLE: Turn control apparatus for a motor vehicle equipped with antiskid braking

system

DATE-ISSUED: January 26, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Sano; Yoshiaki Okazaki JP

US-CL-CURRENT: 303/146; 303/140

ABSTRACT:

A turn control apparatus for a motor vehicle comprises an arithmetic operation section for acquiring a correction amount for the target slip ratio of a target wheel to be controlled based on the required yaw moment of the vehicle in a situation where an antiskid braking system (ABS) should be activated, a computing section for computing the target slip ratio upon reception of the correction amount from the arithmetic operation section, and a section for acquiring actuation modes and pulse widths for inlet and outlet valves for wheel brakes of the individual wheels, based on the target slip ratio when the ABS is in operation.

10 Claims, 58 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 49

Previous Doc

Next Doc

Go to Doc#

Generate Collection

Print

L6: Entry 6 of 9

File: USPT

Jan 4, 1994

US-PAT-NO: 5276624

DOCUMENT-IDENTIFIER: US 5276624 A

TITLE: Turning control apparatus for vehicle

DATE-ISSUED: January 4, 1994

INVENTOR-INFORMATION:

Ito; MasayoshiOkazakiJPYamada; KiichiNagoyaJPYoshida; HiroakiOkazakiJPOtake; KatsunoriNagoyaJPMiyata; YasunobuKomakiJPHashiguchi; MasayukiObuJPTani; MasanoriOkazakiJPIsoda; KeijiNagoyaJPShigehara; ToshioOkazakiJPYuasa; HirooNagoyaJPTanaka; TadaoOkazakiJPOsaki; MasayoshiOkazakiJPYoshida; HiroshiToyokawaJP	NAME	CITY	STATE	ZIP CODE	COUNTRY
Yoshida; Hiroaki Okazaki JP Otake; Katsunori Nagoya JP Miyata; Yasunobu Komaki JP Hashiguchi; Masayuki Obu JP Tani; Masanori Okazaki JP Isoda; Keiji Nagoya JP Shigehara; Toshio Okazaki JP Yuasa; Hiroo Nagoya JP Tanaka; Tadao Okazaki JP Osaki; Masayoshi Okazaki JP	Ito; Masayoshi	Okazaki		•	JP
Otake; Katsunori Nagoya Miyata; Yasunobu Komaki JP Hashiguchi; Masayuki Obu JP Tani; Masanori Okazaki JP Isoda; Keiji Nagoya JP Shigehara; Toshio Okazaki JP Yuasa; Hiroo Nagoya JP Tanaka; Tadao Okazaki JP Osaki; Masayoshi	Yamada; Kiichi	Nagoya			JP
Miyata; Yasunobu Komaki JP Hashiguchi; Masayuki Obu JP Tani; Masanori Okazaki JP Isoda; Keiji Nagoya JP Shigehara; Toshio Okazaki JP Yuasa; Hiroo Nagoya JP Tanaka; Tadao Okazaki JP Osaki; Masayoshi Okazaki JP	Yoshida; Hiroaki	Okazaki			JP
Hashiguchi; Masayuki Obu JP Tani; Masanori Okazaki JP Isoda; Keiji Nagoya JP Shigehara; Toshio Okazaki JP Yuasa; Hiroo Nagoya JP Tanaka; Tadao Okazaki JP Osaki; Masayoshi Okazaki JP	Otake; Katsunori	Nagoya			JP
Tani; Masanori Okazaki JP Isoda; Keiji Nagoya JP Shigehara; Toshio Okazaki JP Yuasa; Hiroo Nagoya JP Tanaka; Tadao Okazaki JP Osaki; Masayoshi Okazaki JP	Miyata; Yasunobu	Komaki			JP
Isoda; KeijiNagoyaJPShigehara; ToshioOkazakiJPYuasa; HirooNagoyaJPTanaka; TadaoOkazakiJPOsaki; MasayoshiOkazakiJP	Hashiguchi; Masayuki	Obu			JP
Shigehara; Toshio Okazaki JP Yuasa; Hiroo Nagoya JP Tanaka; Tadao Okazaki JP Osaki; Masayoshi Okazaki JP	Tani; Masanori	Okazaki			JP
Yuasa; Hiroo Nagoya JP Tanaka; Tadao Okazaki JP Osaki; Masayoshi Okazaki JP	Isoda; Keiji	Nagoya			JP
Tanaka; Tadao Okazaki JP Osaki; Masayoshi Okazaki JP	Shigehara; Toshio	Okazaki			JP
Osaki; Masayoshi Okazaki JP	Yuasa; Hiroo	Nagoya			JP
•	Tanaka; Tadao	Okazaki			JP
Yoshida; Hiroshi Toyokawa JP	Osaki; Masayoshi	Okazaki			JP
	Yoshida; Hiroshi	Toyokawa			JP .

US-CL-CURRENT: 701/72; 180/282, 701/70

ABSTRACT:

In a turning control apparatus for a vehicle, a torque calculation unit calculates a target lateral <u>acceleration</u> of the vehicle according to detection signals from a <u>steering angle sensor</u> for detecting the direction of a steering wheel and a vehicle speed <u>sensor</u> for detecting the speed of the vehicle. It then sets target driving torque of the engine according to the target lateral <u>acceleration</u>. An electronic control unit controls the operation of a torque control device for reducing driving of the engine so that the driving torque of the engine is a target driving torque independent of manipulation by the driver. This thereby rapidly estimates lateral <u>acceleration</u> applied to the vehicle during turning and prevents control delay to enable stable and positive traveling through a curved road.

36 Claims, 59 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 43

Previous Doc

Next Doc

Go to Doc#

Previous Doc

Next Doc

Go to Doc#

Generate Collection

Print

L6: Entry 7 of 9

File: USPT

Aug 21, 1990

US-PAT-NO: 4951207

DOCUMENT-IDENTIFIER: US 4951207 A

TITLE: Method for controlling the front wheel steer angle.

DATE-ISSUED: August 21, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Furukawa; Yoshimi	Saitama			JP
Takei; Akihiko	Saitama			JP
Ishida; Shinnosuke	Saitama			JP
Oono; Nobuyuki	Saitama			JP

US-CL-CURRENT: 701/42; 180/446

ABSTRACT:

The method of the present invention improves the damping property of the yaw motion of the vehicle by feeding back a detected <u>yaw rate</u> value in a dynamic <u>sense</u> for compensating the front wheel <u>steer angle</u> so as to increase the damping coefficient of the yaw motion of the vehicle. By controlling the front wheel steer angle by accounting for not only the proportional term of the steering wheel input angular speed, in the feed-forward control of the front wheel steer angle in relation with the steering operation by the driver, and by appropriately varying the control parameters of the <u>yaw rate</u> feed-back and the steering wheel input feed-forward, the yaw response of the vehicle can be made proportional to the steering wheel input, and the response delay in the <u>yaw rate</u> against the steering wheel input can be reduced to substantially zero.

12 Claims, 8 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 3

Previous Doc

Next Doc

Go to Doc#

Generate Collection

Print

L6: Entry 8 of 9

File: USPT

May 22, 1990

US-PAT-NO: 4926955

DOCUMENT-IDENTIFIER: US 4926955 A

** See image for <u>Certificate of Correction</u> **

TITLE: Rear wheel steering apparatus for automobile

DATE-ISSUED: May 22, 1990

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Ohmura; Hiroshi Higashihiroshima JP
Nakashima; Takashi Hiroshima JP

US-CL-CURRENT: 180/414; 701/20, 701/43

ABSTRACT:

A rear wheel steering apparatus for an automobile detects a vehicle speed and <u>turns</u> rear wheels at a rear wheel <u>turning angle ratio</u> according to the detected vehicle speed upon <u>turning</u> of front wheels. The apparatus includes a vehicle speed detection section for detecting a vehicle speed, a setting section for setting a rear wheel <u>turning angle ratio</u> in accordance with the vehicle speed detected by the vehicle speed detection section, a travel detection section detecting a travel state of a vehicle, a change section for changing <u>turning angle ratio</u> control by the setting section to fail-safe control when a detection output from the vehicle speed detection section is zero and the travel detection section detects the travel state of the vehicle, a brake detection section for detecting a brake operation state, and an inhibition section for inhibiting a change from the normal <u>turning angle ratio</u> control to the fail-safe control by the change section when the brake detection section detects a brake operation state.

24 Claims, 12 Drawing figures Exemplary Claim Number: 1 . Number of Drawing Sheets: 10

Record Display Form

First Hit Fwd Refs

Previous Doc Next Doc

Go to Doc#

End of Result Set

Generate Collection

Print

L6: Entry 9 of 9

File: USPT

Jun 2, 1987

US-PAT-NO: 4669745

DOCUMENT-IDENTIFIER: US 4669745 A

TITLE: Apparatus for controlling steering angle of rear wheels of a vehicle

DATE-ISSUED: June 2, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Miki; Kazuo	Aichi			JP
Fukui; Katsuhiko	Nagoya			JP
Hayashi; Yasutaka	Seto			JP
Ishiguro; Michio	Toyota			JP
Sumi; Kazumasa	Nagoya			JP
Takei; Kazukata	Toyota			JP

US-CL-CURRENT: 180/410

ABSTRACT:

An apparatus for controlling steer angle of rear wheels of a 4-wheel steering vehicle in accordance with the operation of a steering wheel for generating steer angle of front wheels. The apparatus comprises a first member which moves in response to the operation of the steering wheel; a second member which moves in response to the operation of the steering wheel in a direction counter to that of the first member; an output shaft for controlling the steer of the rear wheels; a resilient member disposed between the first member and the output shaft and a controller disposed between the second member and the output shaft for controlling the direction of movement of the output shaft in accordance with the speed of operation of the steering wheel. When the steering wheel is operated at high speed, the resilient member absorbs the force from the first member so that the output shaft moves in the same direction as the second member, whereby the rear wheels are turned in a direction counter to that of the front wheels. When the steering wheel is operated at low speed, the force from the second member is damped so that the output shaft moves in the same direction as the first member, whereby the rear wheels are turned in the same direction as the front wheels.

24 Claims, 49 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 32

Previous Doc

Next Doc Go to Doc#